What is claimed is:

1. A phased array for generating a directed radiation pattern comprising:

a plurality of first tunable elements connected in series between adjacent power divider ports;

a source connected to one input of the plurality of first tunable elements at a first power divider port;

an antenna connected to each of the power divider ports; and a second tunable element connected in parallel with each antenna.

- 2. The phased array of claim 1, wherein phase differences between successive power divider ports are equal.
- 3. The phased array of claim 1, wherein the amplitude of the signal at each antenna is equal, and wherein a phase of a signal at each antenna successively changes by an equal amount.
- 4. The phased array of claim 1, wherein the source comprises an alternating power supply connected to the first power divider port through a quarter-wave transformer, and the power supply further comprises one of a current power supply and a voltage power supply.
- 5. The phased array of claim 1, wherein the first tunable elements are inductors, and each inductor further comprises an impedance inverter.
- 6. The phased array of claim 5, wherein the impedance inverter comprises two quarter-wave transformers connected in series and separated by a shunt varactor.
- 7. The phased array of claim 1, wherein each antenna is separated by a successive antenna by a half wavelength.

- 8. The phased array of claim 1, wherein each second tunable element is a capacitor, and each capacitor further comprises a varactor fabricated for one of continuous tuning and discrete tuning.
- 9. The phased array of claim 1, wherein each second tunable element is a capacitor, and each capacitor further comprises one of a solid-state varactor diode, a solid-state varactor transistor, a ferroelectric varactor, and a MEMS based varactor.
- 10. The phased array of claim 1, wherein each second tunable element is a capacitor, and each capacitor is one of a switching fixed capacitor and a switching transmission line.
- 11. The phased array of claim 1, wherein the combination of the first tunable element, the second tunable element, and the antenna defines a one dimension array.
- 12. The phased array of claim 11, wherein a plurality of one dimension arrays are connected with respect to one another to define a multi-dimension array.
- 13. The phased array of claim 11, wherein a first one dimension array is connected to a second one dimension array through corresponding power divider ports.
- 14. The phased array of claim 13, wherein an amplifier is connected between each corresponding power divider ports of the first and second one dimension arrays.
 - 15. The phased array of claim 1, wherein the first tunable elements

are one of an inductor and a capacitor.

- 16. The phased array of claim 1, wherein the second tunable element is one of an inductor and a capacitor.
- 17. A phased array for generating a directed radiation pattern comprising:
 - a plurality of power divider ports;
- a first tunable element connected in series between each pair of adjacent power divider ports;

an antenna connected to each of the power divider ports; and a second tunable element connected in parallel with each antenna.

- 18. The phased array of claim 17, wherein phase differences between successive power divider ports are equal.
- 19. The phased array of claim 17, wherein the amplitude of the signal at each antenna is equal, and wherein a phase of a signal at each antenna successively changes by an equal amount.
- 20. The phased array of claim 17, wherein a source connectible to at least one power divider port further comprises an alternating power supply connected to a first power divider port through a quarter-wave transformer.
- 21. The phased array of claim 17, wherein the first tunable element is an inductor, and each inductor further comprises an impedance inverter.
- 22. The phased array of claim 21, wherein the impedance inverter further comprises two quarter-wave transformers connected in series and separated by a shunt varactor.

- 23. The phased array of claim 17, wherein each antenna is separated by a successive antenna by a half wavelength.
- 24. The phased array of claim 17, wherein each second tunable element is a capacitor, and each capacitor is a varactor fabricated for at least one of continuous tuning and discrete tuning.
- 25. The phased array of claim 17, wherein each second tunable element is a capacitor is one of a solid-state varactor diode, a solid-state varactor transistor, a ferroelectric varactor, and a MEMS based varactor.
- 26. The phased array of claim 17, wherein each second tunable element is a capacitor, and each capacitor is one of a switching fixed capacitor and a switching transmission line.
- 27. The phased array of claim 17, wherein the combination of the first tunable element, the second tunable element, and the antenna defines a one dimension array.
- 28. The phased array of claim 27, wherein a plurality of one dimension arrays are connected with respect to one another to define a multi-dimension array.
- 29. The phased array of claim 27, wherein a first one dimension array is connected to a second one dimension array through corresponding power divider ports.
- 30. The phased array of claim 29, wherein an amplifier is connected between each corresponding power divider ports of the first and second one dimension arrays.

- 31. The phased array of claim 17, wherein the first tunable element is one of an inductor and a capacitor.
- 32. The phased array of claim 17, wherein the second tunable element is one of an inductor and a capacitor.